

3003

Reducing Desulfurization of Some Diamines of the
Thiophene Series

S/020/60/131/05/033/069
B011/B117

less active than skeleton nickel. Actually, the amines III and IIIa slowly lose their sulfur, when heated in methanol with a large excess of cobalt. The diamines IV and IVa can be obtained in the ordinary way when desulfurization is finished. The yields were not in excess of 30%, it is true, but the authors have good reason to presume that this yield was possibly due to some changes of the experimental conditions. From the amines mentioned, diiodo methylates IV and IVa were prepared. The investigation is continued. There are 8 references, 3 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk
SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the
Academy of Sciences, USSR). Moskovskiy fiziko-tekhnicheskii institut
(Moscow Institute of Physics and Engineering)

PRESENTED: December 18, 1959, by A. A. Balandin, Academician

SUBMITTED: December 8, 1959

GOL'DFARB, Ya.L.; KONDAKOVA, M.S.

Synthesis of bifunctional derivatives from 2, 5-dimethylthiophene.
Report No.2: Action of amines on 3, 4-bis(chloromethyl)-2, 5-
dimethylthiophene. Izv.AN SSSR Otd.khim.nauk no.3:501-513 Nr '61.
(MIRA 14:4)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Thiophene) (Amines)

GOLDZAFB, Ya.L.; ANTIK, L.V.; PETUKHOV, V.A.

Nitration products of α - and α^1 -aminonicotines. Izv. AN SSSR. Otd.
khim.nauk no.5:887-894 My '61. (MIKA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Pyridine) (Nitration)

BELEN'KIY, L.I.; TAYTS, S.Z.; GOL'DFARB, Ya.L.

Synthesis of ω -thienylalkanoic acids from α -chloroalkanoic acids.
Izv. AN SSSR. Otd.khim.nauk no.9:1706-1708 S '61. (MIRA 14:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Acids, Fatty)

GOL'DFARB, Ya.L.; VOL'KENSHTEYN, Yu.B.

Chloromethylation of acetophenone and 2-acetotHione in the
presence of excess aluminum chloride. Zhur. ob. khim. 31 no.2:
616-623 F '61. (MIRA 14:2)

1. Institut organicheskoy khimii AN S.S.R.
(Acetophenone) (Ketone) (Chloromethylation)

FABRICHNYY, B.P.; SHALAVINA, I.F.; G. L'DFARB, Ya. L.

Beckmann rearrangement of thiophenocycloalkanone oximes.

Zhur. ob. khim. 31 no.4:1244-1253 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii Akademii nauk SSSR imeni N. D. Zelinskogo.

(Oximes) (Cyclohexanone)(Cycloheptanone)
(Beckmann rearrangement)

GOL'DFARB, Ya.L.; FABRICHTNY, B.P.; SHALAVINA, I.F.

Synthesis of aliphatic amino acids from thiophane derivatives.
Part 6: Preparation of ϵ - and δ -amino acids and C-substituted
lactams. Zhur.ob.khim. 31 no.6:2057-2064 Je '61. (MIRA 14:6)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Amino acids) (Lactams)

FEDOROV, B.P.; GORUSHKINA, G.I.; GOL'DFARB, Ya.L.

Synthesis of secondary amines of the thiophene series.
Zhur.ob.khim. 31 no.12:3933-3939 D '61. (MIRA 15:2)
(Amines)
(Thiophene)

GOLDENBERG, Y. L. DOLY, P. M. Y. L. .

Synthesis and transformation of 2-ethyl-2-methyl-2-butene. 1967,
Sov. Khim. 11, no. 11, 1666-1671 (1967). (R 21, 11)

1. Institut khimicheskoy khimii imeni E. D. Belinskogo AN SSSR.
(Moscow)

VCL'KENSHTeyN, Yu.B.; GCL'DFARB, Ya.L.

Brcmination of alkyl thienyl ketones. Dokl.AN SSSR 138 no.1:115-
118 My-Je '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D. Linskogo AN SSSR.
2. Predstavleno akademikom A.A.Balandinym.

(Ketones)

(Brcmination)

BELEN'KIY, L.I.; FAYTS, S.Z.; GOL'DFARB, Ya.L.

New method of synthesizing macrocyclic ketones having a
musk odor. Dokl. AN SSSR 13" no.6:1356-1358 Ag '61.

(MIRA 14:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
Predstavleno akademikom A.A. Balandinym.

(Ketone)

✓

GOLDFARB, YA. L.; TAYTS, S. Z.; BELENKIY, I. I.

" New method of synthesis of macrocyclic compounds. "

report submitted for the IUPAC 2nd International Symposium on the
Chemistry of Natural Products, Prague Czech., 27 Aug - 2 Sep 62

GOLDFARB, Ya. L.; ALASHEV, F. D.; ZVORYKINA, V. K.

Oxidation of anabasine by hydrogen peroxide. Izv. AN SSSR
Otd. khim. nauk no. 12:2209-2216 D 1962.

(MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Anabasine) (Hydrogen peroxide)

S/190/62/C04/C12/C06/015
B101/B186

AUTHORS: Volokhina, A. V., Fabrichnyy, B. P., Shalavina, I. F.,
Gol'dfarb, Ya. L.

TITLE: Polymerization of C-ethyl and C-propyl substituted
enantholactams

PERIODICAL: Vysokomolekulyarnyye soedineniya, v. 4, no. 1, 1961,
1429-1431.

TEXT: The susceptibility of *l*-ethyl- β -enantholactam and of *l*-n-propyl- β -enantholactam to polymerization was investigated. Synthesis: The lactam of *l*-(3-aminothiophenyl-2)-valeric acid, or the lactam of *l*-(1-amino- β -methylthienyl-2)-valeric acid was obtained from 2',3'-thiophene-1,2-cycloheptan- β -one oxime or from β -methyl-2',3'-thiophene-1,2-cycloheptan- β -one oxime by Beckmann rearrangement in the presence of benzene sulfochloride. At the same time the sulfur was eliminated with skeleton nickel, and the double bonds of the thiophene ring were hydrogenated. The polymerization was carried out at 220-280°C with 2% H₂O as catalyst in N₂ atmosphere.

Solid, glass-like substances with m.p. 170°C were obtained, which can be

Card 1/2

Polymerization of 6-ethyl and...

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B101, B1-6

put out to filament at 17-20 and from the hot alcoholic solution of which films can be formed. The polymer yield was more than 90%, the intrinsic viscosity reached 0.80 for the ethyl derivative, and 0.60 for the propyl derivative. Conclusion: in contrast to the seven-membered caprolactam ring, the polymerization susceptibility of the eight-membered enantholactam ring is not affected by substituents. There is 1 figure. The most important English-language reference is: E. K. Hall, J. Amer. Chem. Soc., 80, 6031, 1958.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers); Institut organicheskoy khimii im. N. D. Zelinskogo AN USSR (Institute of Organic Chemistry imeni N.D. Zelinskiy AS USSR)

SUBMITTED: July 7, 1961

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some conversions of sulfides of the thiophene series.
Part 5: Synthesis and reactions of 2-mercaptothiophene. Zhur. ob.
khim. 32 no.1:222-230 Ja '62. (MIRA 15:2)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Thiophene) (Mercapto compounds)

GOL'DFARB, Ya. L.; TARASOVA, L. D.

New method of synthesizing α - β -disubstituted furans.
Dokl. AN SSSR 142 no. 2:358-361 Ja '62. (MIRA 15:2)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.
Predstavleno akademikom A. A. Balandinym.
(Furan)

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some transformations of sulfides of the thiophene series. Report No.6: Action of sodium in liquid ammonia on acetals of 2-ethyl- and 2-benzylmercapto-5-ethyl-3-thiophenylaldehyde. Izv. AN SSSR Otd.khim.nauk no.4:701-709 Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thiophene) (Sodium)

GOL'DFARB, Ya.L.; IBRAGIMOVA, M.B.; KALINOVSKIY, O.A.

Synthesis of amino sulfides of the thiophene series. Izv.AN
SSSR.Otd.khim.nauk no.6:1093-1102 '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thiophene) (Mercapto compounds) (Amino group)

GOL'DFARB, Ya.L.; KRASNYANSKAYA, E.A.; FARICHNYY, B.P.

Preparation of primary aliphatic and alicyclic amines from
thiophene derivatives. Izv. AN SSSR.Otd.khim.nauk no.10:1825-1836
0 '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Amines) (Thiophene)

FABRICHTNY, B.P.; KRASNYANSKAYA, E.A.; DOL'DFARB, Ya.L.

Preparation of higher aliphatic α -amino acids from 2-phenyl-4-(
(thienylidene)-5-oxazolines. Dokl. AN SSSR 143 no.6:1370-1373
Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Predstavleno akademikom B.A. Kazanskim.
(Amino acids) (Oxazoline)

GOL'DFARB, Ya.L.; LITVINOV, V.P.

Thiophthene series. Report No. 1: Searching for methods of
synthesizing substituted compounds of thiophthene. Izv. AN
SSSR, Otd. khim. nauk no. 2: 343-351 F '63. (MIRA 16:4)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Thienothiophene)

GOL'DFARB, Ya.L.; LITVINOV, V.P.

Thiophthene series. Report No.2. Cyclization of esters of substituted (thienylmercapto)-acetic acids and some transformations of 2-ethylthiophthene. Izv.AN SSSR.Otd,khim,nauk no.2:352-359 F '63. (MIRA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Acetic acid) (Thienothiophene)

GOL'DFARB, Ya.L.; DANYUSHEVSKIY, Ya.L.

Synthesis and some conversions of 2-furyl-2-thienylmethane.
Report No.2: Metallation and preparation of some derivatives
of 2-furyl-2-phenylmethane. Izv.AN SSSR.Otd.khim.nauk no.3:
540-548 Mr '63. (MIRA 16:4)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Thiophene) (curem)

GOL'CFARB, Ya.L.; VOL'KENSHTEIN, Yu.B.

Chloromethylation of 5-ethyl-2-acetothionone. Izv. AN SSSR. Otd.khim.
nauk no.4:737-742 Ap '63. (MIRA 10:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ketone) (Chloromethylation)

TAYIS, S.Z.; GOL'DFARB, Ya.L.

New method of synthesizing macrocyclic compounds. Report No.2:
Acyloin condensation of dicarboxylic esters of the thiophene
series. Izv. AN SSSR. Ser.khim. no.7:1289-1299 71 '63.

(11 A 16:9)

1. Institut organicheskoy khimii im. N.D.Selinskogo AN SSSR.
(Macromolecular compounds)
(Acyloins)
(Thiophene)

GOL'DFARB, Ya.L.; LAYTS, S.L.; BULGAKOVA, V.E.

New method of synthesizing macrocyclic compounds. Report No.3:
Intramolecular alkylation of 2-(α -iodoalkyl)-5-(carbethoxycetyl)
thiophenes. Izv. AN SSSR. Ser.khim. no.1299-1307 51 1963.
(1964 1969)

1. Institut organicheskoi khimii im. N.I. Zelinskogo AN SSSR.
(Thiophene) Alkylation) (Macromolecular compounds)

GOL'DFARB, Ya.L.; TAYTS, S.Z.; BEIEN'KIY, L.I.

New method of synthesizing macrocyclic compounds. Report No.4:
Effect of the length of aliphatic chain on the character and yield
of the products formed in the intramolecular acylation of
 ω -(2-thienyl)alkanoic acid chlorides. Izv.AN SSSR.Ser.khim. no.8:
1451-1460 Ag '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Acids, Fatty) (Cyclization)

TAYTS, S.Z.; BELEN'KIY, L.I.; GOL'DFARB, Ya.L.

New method of synthesizing macrocyclic compounds. Report No.5:
Effect of the phase composition of a reaction mixture on the process
of intramolecular acylation of 10-(2-thienyl)capric acid chloride.
Izv.AN SSSR.Ser.khim. no.8:1460-1469 ag '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Decanoic acid) (Acylation) (Cyclic compounds)

GOL'DFARB, Ya.L.; LITVINOV, V.P.

Thiophthene series. Report No.3: Cyclization of acetonylmercapto-
thiophenes in the presence of aluminum chloride. Izv. AN SSSR.
Ser.khim. no.2:1621-1626 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thienothiophene) (Thiophene) (Cyclization)

GOL'DFARB, Ya.L.; LITVINOV, V.P.; PETUKHOV, V.A.; YAKOVLEV, I.P.

Thiophthene series. Report No.4: Quantitative composition of the product obtained by the cyclization of 5-ethyl-2-acetylmercaptothiophene in the presence of aluminum chloride. Izv. AN SSSR. Ser.khim. no.3:1627-1631 S '63.
(MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thienothiophene) (Thiophene) (Cyclization)

GOL'DFARB, Ya.L.; KALIK, M.A., KIRMANOVA, M.L.

Synthesis and some transformations of sulfides of the thiophene series. Report No.7: Synthesis and reactions of bis-(5-alkyl-2-mercaptothienyl) alkanes. Izv. AN SSSR Ser.khim. no.10.1801.1800 0 '63. (MIRA 17.3)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GOL'DFARB, Ya.L.; FABRICHNYY, B.P.; ROGOVIK, V.I.

Syntheses based on aldehydes of the thiophene series. Part 1.
Synthesis of some aliphatic hydroxy amino acids from thiophene
derivatives. Izv. AN SSSR Ser. khim. no.13:2172-2177 D '63.
(MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

ROGOVIK, V.I.; GOL'DFARB, Ya.L.

Syntheses based on aldehydes of the thiophene series.

Part 2: Some reactions of thiophene-2,5-dialdehyde mono-acetal. Izv. AN SSSR. Ser. khim. no.12:2178-2183 D '63.

(MIRA 17:1)

1. Institut organicheskoy khimii im. N.I. Zelinskogo AN SSSR.

LITVINOV, V.P.; GOL'DFARB, Ya.L.

Thiophthene series. Part 5: Some transformations of isomeric thiophthenes. Izv. AN SSSR. Ser. khim. no.12:2183-2192 D '63. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

PAPEICHNYI, B.P., KRACHNANSKAYA, L.A.; SHALAVINA, I.F., GOL'DFARB, Ya.L.

Synthesis of aliphatic amino acids from thiophene derivatives.
Part 7: Preparation of some higher α -amino acids from 2-phenyl-
4-thienyliden-5-oxazolones. Zhur. ob. khim. 35 no.8:2697-2702
Ag '61. (MIRA 16:11)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

GOLDFARB, B.L., LITVINCHIK, Y.L., VITKOVICH, M.A.

Synthesis and properties of compounds of the furan series.
Alkyl-(2-furyl) sulfides and some of their transformations.
Dokl. AN SSSR 151 no.2:235-236 1963. (MIRA 1:27)

1. Institute Khimicheskoy Fiziki im. N.D.Zelinskogo AN SSSR.
Inst. Khim. Akad. Nauk SSSR.
(Leningrad) (MIRA 1:27)

FABRICHTNY, B. P.; GOL'DFARB, Yakov Lazarevich; SPALAVINA, I. P.

"On the synthesis of the 2,3,4,5-tetradhydrobiotin."

Report presented for the 3rd Intl. Symposium on the Chemistry of
Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

GOL'DFARB, Ya.L.; DANYUSHEVSKIY, Ya.L.

Synthesis of 2-mercapto-5-alkyl-3-furanylphenol. Izv.
Ak. SSSR Ser. khim. no.7:1345-1347, 1964. (ChR 17:8)

1. Institut organicheskoy khimii Akad. Nauk SSSR.

GOLDFARB, Ya.L.; TAYTS, S.Z.; GRIBOVA, I.L.; MELNIKOV, A.I.

New method of synthesizing macrocyclic compounds. Report No. 1.
Some transformations of [10]- α -cyclic-1-thiolane. Izv. AN SSSR
Ser. Khim. n. 11:2055-2060, 1974 (1975, 1976:1)

1. Institut organicheskoy khimii im. P.D. Barteneva AN SSSR.

GOL'DFARB, Ya.L.; LITVINOV, V.P.

Synthesis of some selenides and sulfides of the thiophene and
furan series. Izv. AN SSSR Ser. Khim no.11:2088-2089 1974
(RUSS 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GOL'DFARB, Ya.L.; KONDAKOVA, M.M.; KRAS'YANSKAYA, E.A.; JENOGRELOVA, M.A.

Synthesis of condensed systems based on 3,4-bis-(Chloromethyl)-
2,5-dimethylthiophene with eight-, ten-, and fifteen-membered
rings. Izv. AN SSSR Ser. khim. no.12:2182-2187 D '64
(MIRA 18:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

GOL'DFARB, Ya.L.; ALASHEV, F.D.; ZVORYKINA, V.K. [deceased]

Preparation of anabasine Py-N-oxide. Izv. AN SSSR Ser. khim.
no.12:2241-2242 D '64 (MIRA 18:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo
AN SSSR.

GILL, S.M.; WILKINSON, Y.E.; DEATIN, R.V.

Formation and chloromethylation of 2-chloroethyl ether in the presence of an excess of aluminum chloride. *Chem. Abstr.*, 54 no. 3:60477 Fr '64.

ALPH 1716

1. *Uspoln. khimicheskoy khimii* (Sov. Khim. Akad. Nauk SSSR).

123/0405/0490

Technology, B.

substituted

33

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Reference

11, 207

1. i. 32

added

113. 12. 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622,

PARROT BIRD,

... AN
... ... (MIRA 14:5)

... ... AN ...
... ...

GOL'DFARB, Ya.L.; TARASOVA, L.D.

Bromination products of furfurole. Izv. AN SSSR. Ser. khim.
no.6:1079-1080 '65. (MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

RYASHENTSEVA, M.A.; MINACHEV, Kh.M.; KALINOVSKIY, O.A.; GOL'DFIRE, Ya.L.

Reduction of azomethines of the thiophene series on rhenium hepta-
sulfide. Zhur. org. khim. 1 no.6:1104-1108 Je '65. (MIRA 18:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

GOL'DFARB, Ya.L.; LITVINOV, V.P.; GZOLIN', S.A.

SYNTHESIS OF 2-ACETONYL-5-MERCAPTO-1,3,4-THIAZOLE IN THE PRESENCE OF ALUMINUM CHLORIDE. I.
AN SSSR. Gen. Khim. 1974, 40, 115-116. (MIRA 1975)

In: Izvestiya Akad. Nauk SSSR Khim. 1974, No. 1, 115-116. AN SSSR.

GOL'DFARB, Ya. I. I. I.; BELEN'VY, I. I.

Formylation of the sulfides of the isopren series. IAV AN SSSR Ser.
khim. no. 79, 1964, 166-168. (1965) (RUSSIAN) (MIRA 3:7)

1. Inspected and checked animal in U. S. Dept. of Agriculture at Wash.

1. *Chlorophyll a* (Chl a) and *Chlorophyll b* (Chl b) are the two main pigments in the photosynthetic apparatus of green plants. They are responsible for the absorption of light energy and the conversion of carbon dioxide and water into glucose and oxygen.

U.S. GOVERNMENT PRINTING OFFICE: 1969 O 344-100

• 1. 1984. *Travelling in the USSR*. Moscow: AN USSR.

SALAMATINA, G.D.; BUNETSKAYA, A.K.; ZHURAVY, S.M.; PAFICHENY, B.F.;
SHALAVINA, I.P.; GOL'DFARD, Ya.I.

Kinetics and the thermal effect of the polymerization of some
C-alkyl-substituted lactams. Vysokom. soed. 7 no.3:485-490
Mr '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
i Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

SECRET

TO: DIRECTOR, CIA
FROM: [illegible]
SUBJECT: [illegible]
(NRK 18 1)

PAVLENKO, B. I., CHALAYNA, L. P., GOLITSKY, Y. I.

Synthesis of aliphatic amino acids from triophane derivatives.
Part 6: Preparation of α -alkyl- ϵ -caprolactams and α -alkyl- ϵ -aminocaproic acids. Zhurn. org. khim. 1 no. 8:150-1514
Aug '66. (U.S.S.R.)

1. Infrared spectroscopy, elemental analysis, mass spectrometry.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CONTRACT 44-61

The effect of salinity on the progress of the disease in acetate solutions (1.5% NaAc, 1.5% NaCl, 1.5% Na₂SO₄, 1.5% Na₂CO₃) was studied. The results are shown in Table 1. As can be seen from the data, the disease is not inhibited by acetate solutions. The effect of salinity on the development of the disease in the soil was also studied. The results are shown in Table 2. The data show that the disease is not inhibited by salinity in the soil.

COLE, DEAN, M.
BARIT, P.G., Engineer; VAYNSHTEYN, D.M.; GOLDFARB, (M.P.), Engineer.

Radioactive slurry gauge for rotary kilns. TSentent 22 no.5:13-15
S-O 56. (MIRA 15:1)

(Gamma rays- Industrial applications) (Kilns, Rotary)

15(6)

NOV 1971-89-4-2/10

AUTHORS: Leontenkov, A.I. and Gol'dfarb, Yu.M.

TITLE: A New Pickup for the Charging Regulator of Fuel Mills

PERIODICAL: Trakht, 1973, No 4, p. 5-8 (USSR)

ABSTRACT: The authors state that application of the acoustic regulator for charging fuel mills has proved its usefulness in cement plants. The regulator ensures an increase of the average output per hour and a reduction in specific consumption of electricity, kWh/GV; a better uniformity in the fineness of the ground product is obtained. The regulator, having a microphone for the pickup, is subjected to certain acoustic impediments created by adjacent mills and other sources of noise. An inductive pickup, diagram 1 (Figure 1), has been designed to solve this problem. It consists of two parallel permanent magnets with opposed poles and of a ferrit core coil, whose axis coincides with the line of zero intensity of the magnetic field. This line, in turn, coincides with the

Card 1/3

U 4/101-70-1-1/10

A New Pickup for the Charging Regulator of Ball Mills

magnets' axis of symmetry, Diagram 2 (left) (Figure 2). The magnetic field is distorted by a ferromagnetic element placed near the ends of the magnets and a deviation of the zero intensity line, Diagram 2 (right) (Figure 3), will result. Oscillations of the ferromagnetic element will produce induction of electromotive force with a frequency equal to the oscillation frequency of the ferromagnetic element. The induction pickup responds to the oscillations of a vibrating body placed at a considerable distance from the apparatus. Graph 7 (Figure 4) shows the amplitude characteristics of the induction pickup. The pickup has been tested in the Podolskiy tsementnyy zavod (the Podolsk Cement Plant). RCM and RCM-2 charge regulators may be used. Diagram 4 (Figure 4) shows a recording scheme of the pickup and the microphone. Graphs 5 and 6 (Figure 5 and 6) show recording of signals of the induction pickup and the microphone, the latter, for starting and

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77/201-09-4-1-1

A New Pickup for the Chanting Regulator of Tail Mills

shutdown periods of an adjacent mill. The author concludes that the application of the pickup control of the new material mills will probably facilitate the control operations, especially when the latter are installed in the same plant with the cement mills. There are 3 diagrams and 3 graphs.

Card 3/3

Dehydrochlorination of 1,1,1,3-tetrachloro-3-methylbutane
A. V. Topchiev, N. B. Bogdanova, and Yu. Ya. Goldfarb. Proc. Acad. Sci. U.S.S.R., Sect. Chem. 107, 173-5 (1966) (Engl. translation) — See C.A.B. 50:14603d

3

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TOPCHIYEV, A.V., akademik; BOGOMOLOVA, N.F.; GOL'DFARB, Yu.Ya.

Dehydrochlorination of 1,1,1,3-tetrachloro-3-methylbutane. Dokl.
AN SSSR 107 no.3:420-423 Mr '56. (MLRA 9:7)

1. Institut nefti Akademii nauk SSSR.
(Hydrochloric acid) (Butane)

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515620020-0

1. Polymerization of α -haloacrylates in the presence of $\text{Al}(\text{C}_2\text{H}_5)_3$ and ethylaluminum halides. A. V. Zaporozhnyi, N. N. Zakharenko, and V. A. Zakharenko. *Vysokomol. Soedin.* 1966, 8, 121-123 (1966). When HCl , HBr , or HI is added to a solution of α -haloacrylate in solution of $\text{C}_2\text{H}_5\text{AlX}_2$, the rate of polymerization of $\text{C}_2\text{H}_3\text{CH}_2\text{CH}_2\text{X}$ is influenced in the same way as in the polymerization of α -haloacrylates in the presence of $\text{Al}(\text{C}_2\text{H}_5)_3$. The results in polymerization of the latter.

2. The yield at 70°C. about 30%, at 100°C. 40-50%, and at 120°C. 50-60% with mol. ratios $\text{Al}(\text{C}_2\text{H}_5)_3$ to AlX_3 of 1 to 10. A small amt. of AlX_3 added to $\text{Al}(\text{C}_2\text{H}_5)_3$ is sufficient to increase polymerization. It is suggested that the polymer contains side chains at every 10% AlX_3 about (cf. Zaporozhnyi, *ibid.* 1966, 8, 2123).

(Cf. M. Krawinkel, *ibid.* 1966, 8, 2123).

17
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27 May

5(3)

SCV, 62-59-2-35, 40

AUTHORS: Topchiyev, A. V., Krentsel', B. A., Gol'dfarb, Yu. Ya.

TITLE: Letter to the Editor

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye Khimicheskikh nauk, 1959, Nr 2, p 369 (USSR)

ABSTRACT: In the present letter to the editor the authors write: As is known, heterocyclic compounds which are usually among the aromatic systems exhibit the properties of dienes up to a certain extent. This becomes especially manifest in compounds of the furan series which are able to combine with maleic acid anhydride. Less distinct becomes this fact in the case of thiophene. In this connection the possibility of a polymerization of such compounds in the presence of a complex organometallic catalyst which contained trialkyl aluminum and titanium tetrachloride was investigated. A number of experiments showed that furan, α -methyl furan and thiophene in n-hexane form solid compounds in the presence of the catalyst mentioned. These compounds are practically insoluble in aliphatic and aromatic hydrocarbons. The product obtained from furan remains unchanged on heating up to 320°. The product formed from α -methyl furan

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Letter to the Editor

307, 62-59-2-34/41

does not change up to about 260° . Thiophene polymerized under similar conditions forms a solid polymer that melts at $\approx 150^{\circ}$. The elementary analysis of poly- α -methyl furan shows the following characteristic data:

Found %: C 72.62; 72.59; H 7.64; 7.70

Calculated %: C 73.17 H 7.51

As to the products formed from non-substituted furan and thiophene, it has not been possible so far to obtain analytically pure samples. The investigations are being continued.

ASSOCIATION: Institut nefiti Akademii nauk SSSR (Petroleum Institute of the Academy of Sciences, USSR)

SUBMITTED: November 14, 1958

Card 2/2

538

506.8

AUTHORS:

Frenkel', S. Ya., Topchiyev, A. V.,
Krentsel', B. A., Gol'dfarb, Yu. Ya

S/076/60/034/02/010/044
B010/EC15

TITLE:

Investigation of the Polydispersity of Polymers by the Method of
the Unestablished Sedimentation Equilibrium II. Investigation of
Polyisobutylene Obtained With a Complex Organometallic Catalyst

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, pp 327-334 (USSR)

ABSTRACT:

The investigation results of the previous paper (Ref 1) were
completed by determining the sedimentation coefficients S , dif-
fusion coefficients D , and characteristic viscosities $[\eta]$ on 5
polyisobutylene samples in n-heptane at 20° and at 1 atm. The
values of measurement obtained for these hydrodynamic charac-
teristics are given (Table 1). Three of the samples showed a
noticeable polydispersity. The molecular weights were calculated
according to the formulas:

$D ([\eta]M)^{1/3} = 2.56 \cdot 10^{-5}$ $S ([\eta]M^2)^{1/3} = 2.47 \cdot 10^{-16}$
(Table 2), and it was found that $S = 2.57 \cdot 10^{-2} M^{1/2}_{SD2m}$ Svedberg
units; $D = 2.63 \cdot 10^{-4} M^{1/2}_{SD2m} \text{ cm}^2/\text{sec.}$ and $[\eta] = 7 \cdot 10^{-5} M_{SD2m}$ hold

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for the unfractionated samples, i.e. for the dependence of the

Investigation of the Polydispersity of Polymers by
the Method of the Unestablished Sedimentation
Equilibrium. II. Investigation of Polyisobutylene
Obtained With a Complex Organometallic Catalyst

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BC10/BC15

characteristic viscosity $[\eta]$ on the mean molecular weight M_{SP} , the simple Staudinger equation is obtained. The values for M_w and M_z were taken from reference 1, and indicated together with those for M_{SD} and M_{SP} , as well as M_0 (Table 3). A simple method is suggested for the correlation of the hydrodynamic values of measurement with the direct values of measurement for M_z and M_w , and it is pointed out that a similarity to the distribution function, given by Wesslau (Ref 7) for some of the low-pressure polyethylenes, may be observed. If all conditions remain the same, the molecular weight of polyisobutylene increases with the duration of the polymerization reaction. This fact indicates a successive prolongation of the linear chains. The growing of molecules on catalysts of the Ziegler-Natta type is assumed to be comparable with the "growing of a tree". The degree of polymerization depends on the duration t of the growing process and the rate of growth v . The values t and v are determined by the properties of the ternary system monomer - catalyst - solvent. Studies in connection with the Kramer-Lansing distribution function lead to the con-

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Investigation of the Polydispersity of Polymers
the Method of the Unestablished Sedimentation
equilibrium II. Investigation of Polyisobutylene
obtained with a Complex Organometallic Catalyst

S/076/60/034/02/010/044
B010/B015

clusion that the samples investigated exhibit rather a high dis-
persity. It is doubted that the free radicals play an essential
part in the process investigated. There are 5 figures, 3 tables,
and 12 references, 6 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR Institut vysokomolekulyarnykh soedineniy
(Academy of Sciences of the USSR, Institute of High-molecular
Compounds), Institut neftekhimicheskogo sinteza (Institute of
Petroleum chemical Synthesis)

DATE: April 21, 1958

23768

15.811 2103

S/190/61/003/006/011/019
B110/B208

AUTHORS: Topchiyev, A.V., Gol'dfarb, Yu. Ya., Krentsel', B. A.

TITLE: Polymerization of some heterocyclic compounds in the presence of a complex organometallic catalyst

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 6, 1961, 870 - 876

TEXT: Three-membered rings were opened in the heterocyclic compounds polymerized by the authors (Ref. 1: Izv. AN SSSR, Otd. khim. n., 1959, 369) by means of a complex organometallic catalyst (ethylene oxide, ethylene imine etc.). By substitution of other heteroatoms for the heteroatom (e. g. of sulfur for the furan oxygen) the aromatic character is changed and the ring opening in the polymerization of thiophene should not take place. The purpose of the present paper was therefore the investigation of furan, 2-methyl furan and thiophene polymerizations and that of their homologs by the new metalalkyl titanium tetrachloride catalysts. Their copolymerization with olefins should also be studied later on. The authors also investigated the polymerization of dihydropyran which like furan was obtained in a high yield. The polymerization of furan took
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Polymerization of some heterocyclic ...

S/190/61/003/006/011/019
B110/B208

place between 0 and 25°C with the $\text{Al}(\text{C}_2\text{H}_5)_3 + \text{TiCl}_4$ catalyst whose ratios fluctuated between 3:1 and 1:5 and whose concentration (referred to the solvent) between 1 and 12%. The yield increased with the TiCl_4 content in the catalyst, partial resinification occurred with a ratio of 1:5. Temperature changes between 10 and 25°C did not affect the yield which, however, drops at $\geq 0^\circ\text{C}$. An optimum yield of the polymer of the accessible α -methyl furan (silvan) was obtained at 10°C (Fig. 1 a), at a molar ratio $\text{Al}(\text{C}_2\text{H}_5)_3 + \text{TiCl}_4 = 1:5$ (Fig. 1 b), and at a catalyst concentration of 12%.

The optimum ratio for furan was 1:3. Under similar conditions (temperature $\sim 75^\circ\text{C}$) thiophene gave lower optimum yields. The best yields were obtained for dihydropyran at a ratio 1:1 and 20°C. Samples of polyfuran and polysilvan were pressed at 20 kg/cm² at 100°C, and their thermomechanical curves were recorded by means of the dynamometric weights of Kargin. At $\sim 90^\circ\text{C}$, cross linking, decrease of deformation and hardening took place. This is indicative of double bonds in the chain and sufficient mobility in the links which also becomes manifest at the vitrification temperature. A viscous state is prevented by the network. At a softening point of the polymers between 220 and 230°C deformation increases, then becomes constant

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2110/0002

Polymerization of some heterocyclic ...

up to decomposition at 350°C. The high-elastic state lies between 30 and 250°C. X-ray examination disclosed an amorphous structure. Absorption spectra were taken by M. V. Chishtin on the KI-14 (IAS-14) spectrograph in the laboratory of M. M. Kuznetsov of the authors' institute. The presence of double bonds and the absence of the liene system were confirmed. The authors assume the following structure for the polymer of thiophene, furan and silvan:



As no ring opening occurs in reactions of thiophene, furan and their homologs with Friedel-Crafts catalysts, it is not assumed in this case either. This is also supported by the high decomposition temperature and the results of spectrum analysis. 50 ml of n-hexane, purified by sulfuric acid and distilled over metallic sodium were mixed with 3.68 HCl, and

0.92g $\text{Al}(\text{C}_2\text{H}_5)_3$ under stirring at a temperature kept constant at 10°C

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3/190/61/003/006/011/019
B110/2209

Polymerization of some heterocyclic ...

by means of a Hg-pump thermostat. After 3 min the catalyst was added, and within 10 min 2 g furan. After 6 hours the catalyst is destroyed by CH_3OH , and the polymer is dried at 160°C and 1 mm Hg up to weight constancy. 1.62 g of a yellow solid and 0.76 g of a liquid product were obtained.

2-methyl furan (boiling point 65.5°C , $n_D^{20}=1.4510$) was polymerized in an analogous way. 2.61 g of a light brown polymer were separated by n-hexane from the ether extract of the polymer dried by CaH_2 . After evaporation of the ether 3.4 g low-molecular polymer with an intrinsic viscosity of 0.15 (in dioxane at 30°C) with $\eta_{sp}/c=1.66$ dl/g; 7.64 g H was left. 1.7 g TiCl_4

and 0.13g $\text{Al}(\text{C}_2\text{H}_5)_3$ were added to 15 ml n-hexane. 2.1 g thiophene were added 3 min after addition of the catalyst. The resultant powdery yellow polythiophene decomposed at 180°C and had a viscosity of 0.11: $\eta_{sp}/c=1.66$ dl/g; 4.74 g H. 0.75 g TiCl_4 , 0.45 g $\text{Al}(\text{C}_2\text{H}_5)_3$ and 2.1 g polythiophene were added to 15 ml n-hexane. The white, powdery polythiophene formed in a 0.46 g yield decomposed at 110°C and had the composition: $\eta_{sp}/c=1.66$ dl/g; 3.67 g H.

Card 4/6

Polymerization of some heterocyclic ...

3/190/61/101/006/011/019
5110, 8703

There are 4 figures, 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.
The references to English-language publications read as follows: Ref. 1:
J. Bruce, F. Challenger, H. E. Gibson, J. E. Allenby, J. Inst. F. L. Lenin.,
34, 226, 1948. Ref. 3: G. L. Meinel, S. S. Johnson, H. D. Hartman, J.
Amer. Chem. Soc., 72, 1910, 1950.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of
Petrochemical Synthesis AS USSR)

SUBMITTED: July 28, 1960

Card 5/6

GOLITSKY, Yr. Ya.; KERSHENBAUM, I. L.; SHISHKINA, M. V.

Structure of the product of silvan polymerization in the presence
of a complex metallo-organic catalyst. Izv. AN USSR. Ser. Khim.
no. 6:1096-1101 1974. (MIRA 17:1.

1. Institut neftkhimicheskogo sinteza im. A. V. Topchiyeva V. SSSR.

BRUNCH, C. W., BRIDGMAN, M. D., ANDERSON, D. L.

[illegible]

Russian records of the USSR: A. A. Ivanov, S. V. Kozlov, S. Y. Korisankova, L. G. Goldfainia, Arkha, Leningrad, 1961.

Monthly list of Russian accessions, Library of Congress, June 1955, Vol. 1.

GALLAGHER, L. J.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1953)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Gallagher, L. J.	"Health Record of the USSR"	Ministry of Health USSR

SO: W-30604, 7 July 1954

GOL'DFAYL', L.G.

Improving the medical system for selecting and sending patients
to health resorts and sanatoria. Vop.kur.fizioter. 1 lech. fiz.
kul't no.3:49-51 J1-S '55. (MLRA 8:8)

1. Iz Tsentral'nogo instituta kurortologii (dir.--kandidat meditsin-
skikh nauk G.N. Pospelova)
(HEALTH RESORTS,
selection & refering of sick, need of improvement in
Russia)
(SANATORIUMS,
same)

GOL'DFAYL', L.G., redaktor; ZAKHAROVA, A.I., tekhnicheskiy redaktor

[Sanatoriums; forms of organization and methods of work]
Sanatorii; formy organizatsii i metody raboty. Pod red. L.G.
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Approved: Ed. J. [Signature] Associate Director of the Bureau of Census, U.S. Department of Commerce, Washington, D. C. (100-360000)

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... will also test the strength of the bond between concrete and corrugated metal reinforcement

John W. Bolton & Associates, Inc., 11, 12, 13, 14-15

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involved in the development of the program. The program is designed to be a self-contained unit, and the development of the program is a continuous process. The program is designed to be a self-contained unit, and the development of the program is a continuous process. The program is designed to be a self-contained unit, and the development of the program is a continuous process.

$\tau_{\text{eff}} = \frac{\tau}{1 - \beta^2} = \gamma \tau$

and to obtain a fairly accurate estimate of the value of the displacement of the reinforcement at the time of failure. The value of the displacement of the reinforcement at the time of failure is a function of the factors influencing the value of the displacement of the reinforcement. The value of the displacement of the reinforcement may be obtained by using the method of the measurement of the full displacement of reinforcement and concrete as a function of the variation of

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Fig. 1. Bonding of concrete reinforcement with concrete. σ - the stressed state of a ferroconcrete element; τ - the variation of bonding stresses σ_{bf} and displacement g .



reinforcement displacement. This functional relationship may be written as

$$\sigma_{bf} = e^{k(l-x)/a} - 1,$$

where k is a coefficient satisfying the equation

$$B = \frac{4\pi D(l + \pi a^2)}{4E_a}.$$

μ and μ_a are respectively the ratio of the modulus of elasticity and the cross-sectional area of the reinforcement to the modulus of elasticity and the cross-sectional area of the concrete, D is the diameter of the reinforcement, and E_a is the modulus of elasticity of the reinforcement. A schematic diagram of a device for measuring the stated parameters is shown, and the concrete-reinforcement configuration for each test specimen is listed. The test results lead to an empirical formula

$$\sigma_{max}/k = 1.5 (l/a)^{1/2}.$$

Card 2/3

ACU (10/1/77)

There is a lot of information in this document, which is the red length.
(not included, and a lot of other)

$$P_1 = \frac{1}{2} \log \frac{1}{2}$$

Comp. and the red length and the length.

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